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Q1: On the periodic table below, draw or shade the non-metals and metals.

1	2											3	4	5	6	7	0
		Кеу					1 H hydrogen 1										4 He helium 2
7 Li lithium 3	9 Be beryllium 4		c mass <b>mbol</b> ) numbe	ŗ						11 B boron 5	12 C carbon 6	14 N nitrogen 7	16 O oxygen 8	19 F fluorine 9	20 Ne neon 10		
23 Na <sup>sodium</sup> 11	24 Mg <sup>magnesium</sup> 12			u								27 Al aluminium 13	28 Si silicon 14	31 P phosphorus 15	32 <b>S</b> <sup>sulfur</sup> 16	35.5 CI chlorine 17	40 Ar <sup>argon</sup> 18
39 K potassium 19	40 Ca calcium 20	45 Sc scandium 21	48 Ti titanium 22	51 V vanadium 23	52 Cr chromium 24	55 Mn <sup>manganese</sup> 25	56 Fe iron 26	59 Co cobalt 27	59 Ni <sup>nickel</sup> 28	63.5 Cu copper 29	65 <b>Zn</b> zinc 30	70 Ga <sup>gallium</sup> 31	73 Ge germanium 32	75 As <sup>arsenic</sup> 33	79 Se selenium 34	80 Br bromine 35	84 Kr <sup>krypton</sup> 36
85 Rb rubidium 37	88 Sr strontium 38	89 Y yttrium 39	91 Zr zirconium 40	93 Nb niobium 41	96 Mo molybdenum 42	[98] Tc technetium 43	101 Ru ruthenium 44	103 Rh rhodium 45	106 Pd palladium 46	108 Ag silver 47	112 Cd cadmium 48	115 In indium 49	119 <b>Sn</b> 50	122 Sb antimony 51	128 Te tellurium 52	127 I iodine 53	131 Xe xenon 54
133 Cs caesium 55	137 Ba barium 56	139 La* Ianthanum 57	178 Hf hafnium 72	181 Ta tantalum 73	184 W tungsten 74	186 Re rhenium 75	190 <b>Os</b> osmium 76	192 Ir iridium 77	195 Pt platinum 78	197 Au <sup>gold</sup> 79	201 Hg mercury 80	204 TI thallium 81	207 Pb lead 82	209 Bi bismuth 83	[209] Po polonium 84	[210] At astatine 85	[222] Rn radon 86
[223] Fr francium 87	[226] Ra radium 88	[227] Ac* actinium 89	[261] Rf rutherfordium 104	[262] Db dubnium 105	[266] Sg seaborgium 106	[264] Bh bohrium 107	[277] Hs hassium 108	[268] Mt meitnerium 109	[271] Ds darmstadfium 110	[272] Rg roentgenium 111	[285] Cn copernicium 112	[286] Nh nihonium 113	[289] FI flerovium 114	[289] Mc moscovium 115	[293] Lv livermorium 116	[294] Ts tennessine 117	[294] Og oganesson 118

## The Periodic Table of Elements

(2 marks)

Q2: How many electrons do group 1, group 2 and group 7 have in their outer shell?

Group 1: \_\_\_\_\_ Group 2:\_\_\_\_\_ Group 7:\_\_\_\_\_

(3 marks)

Q3: Atoms are most stable when they have a full outer shell. Therefore, are metals (groups 1 and 2) likely to lose or gain electrons? Explain.

Q4: Following this, are metal ions positive or negative?

(2 marks)

(1 mark)

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